YNK-DBR No.....
Date.....

AEE/YNK SUB. DN
SBR No: 19/22-23
Date: 6/6/2022

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

Date:

No. First & Final Bill.....

Division: EE (Yelahanka Division – Yelahanka Zone)

Sub-Division: Yelahanka Sub Division

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No.

Name of Work (as per sanctioned estimate): Providing RO Plant at General Hospital Yelahanka Ward No.01.

Reference to Agreement No: BBMP/EE/YNK/AG/32/2020-21, Date: 05-10-2020

Work order No: BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21, Date: 05-10-2020

Job Code: 001-21-000005 Budget head: Est. cost: 10.00 lakhs

Name of Contractor and Full Address: Sri.N.Shiva Kumar

Certified that the measurements were taken by me on 30-05-22 and recorded of Pages: 496207 to 496223 of measurement Book No: 4963 and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurements were verified by me on 30/5/2022 and found correct.
The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer
Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore.

If Memorandum of Payment

1) Total value of work done or supplies made as per account with in
2) Deduct amount to be held in reserve being.....percent Rs.....
3) " Balance
4) Deduct Payments :
   a) Amount of previous payment as in the Office cash Book Voucher No.....Dated.....S.D. No.....
      Amount adjusted towards cash advance recovery of
   b) Payments cost store or other materials supplied.
      Now made recovery of amount creditable to this/other work
      Amount paid on this bill Cheque/Cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the Office Cash Book Voucher No.....dated.....less adjustments
7) Net amount due to or from contractor
   Unadjusted items
8) Advance to contractor for materials brought to site (as detailed) within

Gross Amt =Rs	9,66,864=00
Fine	
FSD =Rs	7400=00
CGST =Rs	8633=00
SGST =Rs	8633=00
IT =Rs	9669=00
LC =Rs	9669=00
CBF =Rs	967=00
Royalty =Rs	7250=00
T.D. =Rs	52,221=00
Net Amt=Rs	9,14,643=00

Contractor's Signature

Received Rs..... (In words)
.....

By Cash and by adjustment of Payment as per memorandum

Witnesses:

1.
2.

Dated.....Signature of Contractor

Stamp

Paid by me by cheque
No.....Dated.....
Cash Rs.....Dated.....

Initials of Officer making payment

(For use in the Office)

Amount to be remitted for Rs. 9,66,864=00

9,14,643=00 by Cheque

and Rs. 52,221=00 by adjustement

Accts. Supdt. Yelahanka Division BBMP

Executive Engineer

Sl. No.	Description of work	Unit	Schedule-B Quantity	Measurement							Remarks
				Qty	Cost	Qty	Rate Rs. & P.	Cost	Qty.	Cost	
1	Earthwork excavation by manual means in Hard Soil for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications KBS 2.1(b) / 2.3.5	Cum	41.76			39.70	484.00	19216.74	39.70	19216.74	
2	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	3.36			3.34	5609.00	18734.06	3.34	18734.06	
3	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	4.24			4.08	4853.00	19800.24	4.08	19800.24	
4	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	3.18			3.06	4963.00	15186.78	3.06	15186.78	
5	Providing flush pointing 20 mm deep to square rubble, course or uncoursed stone masonry with cement mortar 1:3 after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm	7.06			6.80	152.00	1033.60	6.80	1033.60	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Measurement							Remarks
				Qty	Cost	Qty	Rate Rs. & P.	Cost	Qty.	Cost	
6	Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.	Cum	3.77			3.34	6528.00	21818.53	3.34	21818.53	
7	Providing T.M.T steel reinforcement for R.C.C work TMT bars Fe500 including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.	Tonne	0.21			0.21	69562.00	14608.02	0.21	14608.02	
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.	Sqm	45.34			29.72	386.00	11472.69	29.72	11472.69	
9	Providing and constructing load bearing wall with solid concrete blocks having block of size 400x200x200mm density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.	Sqm	66.01			65.59	984.00	64540.56	65.59	64540.56	
10	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification	Sqm	13.52			13.52	243.00	3285.36	13.52	3285.36	
11	Providing 12mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	50.19			50.19	227.00	11393.13	50.19	11393.13	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Measurement Qty	Cost	Qty	Rate Rs. & P.	Cost	Qty.	Cost	Remar
12	Providing 18mm thick cement plaster in single coat with cement mortar 1:3 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	Sqm	58.08			57.81	264.00	15261.84	57.81	15261.84	
13	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., cost of materials, mortar, labour etc., complete as per specification.	Sqm	13.52			13.52	1285.00	17373.20	13.52	17373.20	
14	Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms	Sqm	3.87			2.64	1762.00	4651.68	2.64	4651.68	
15	Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM complete as per specifications. Shutter size 3mx2.8 m Specification	Sqm	5.46			5.46	2815.00	15369.90	5.46	15369.90	
16	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	Sqm	50.19			50.19	118.00	5922.42	50.19	5922.42	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Measurement		Qty	Rate Rs. & P.	Cost	Qty.	Cost	Remarks
				Qty	Cost						
17	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm	58.08			57.81	96.00	5549.76	57.81	5549.76	
18	Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications.	Kgs	21.00			21.00	102.00	2142.00	21.00	2142.00	
19	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgs/sq.cm working pressure of outside diameter chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications- do - 32 mm dia	m	36.00			36.00	139.00	5004.00	36.00	5004.00	
20	Fabricating, supplying & erecting M.S. Angular Truss for all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 Nos. of M.S. anchor bolts at each support, with base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification	Kgs	145.80			144.30	124.00	17893.20	144.30	17893.20	
21	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns poxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.	Sqm	16.20			16.20	831.00	13462.20	16.20	13462.20	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Measurement Qty	Measurement Cost	Qty	Rate Rs. & P.	Cost	Qty.	Cost	Rem
22	DESIGN, SUPPLY, INSTALLATION, COMMISIONNING OF RO PLANT 1000LTR PER HOUR CAPACITY WITH RO PLANT-1000LPH WITH COIN BOOTH 1. Raw water pump Qty officer-one number type Mon Block centrifugal operation flow rate 4M3hr operation pressure 4.0Kg/cm2 type of drive – phase squired cage induction motor make-CRI/TEXmo 2.Multigrated sand filter (MSF) Qty offere-one number Type-Top and bottom flow size 15"x65" operation floe rate-4M3/hr operation pressure-4.0Kg/cm2 type of modia-dual-sand and anthracite carbon filter (ACF) qty offer-one number type top and bottom flow size 16"x65" operation flow rate-4m3/hr operation pressure -3.5kg/cm2 type media activates carbon flakes type of resin-150kgs MOC of shell-FRP make PARTNER/Adventure JODINE VALUE-500 value 4.Micro cartridge filter Nos 5.Antiscalent dosing until qty offere- one number 6.Multistage centrifugal pump high pressure pump qty ofgfe-one nos type-multistage centrifugal operation flow rate-4m3/hr operation flow rate-4m3/hr operation pressure-10 to 15kg/cm2 material of construction -SS 316 make pump-Cri/Kirloskar/unique type of drive motor-three phase, squired cage indicator KWRPM-2.75/2000(Approx.) make of motor crl/Kirloskar 7.R.O Membrane skid consists of (SS 304) a.R.O Membrane b. pressure tubes number od streams offered one type of membrane-spiral wound TFC brackish water membrane-	Nos	1.00			1.00	600000.00	600000.00	1.00	600000.00	
23	Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.	m	28.00			28.00	65.00	1820.00	28.00	1820.00	
24	Supplying heavy gauge PVC conduit pipe .....mm dia ..... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever	m	28.00			28.00	53.00	1484.00	28.00	1484.00	

Sl. No.	Description of work	Unit	Scheduled Quantity	Qty	Cost	Qty	Rate Rs. & P	Cost	Qty.	Cost	Remarks
25	Supplying heavy gauge PVC Conduit Pipe ....dia .... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.	m	23.00			23.00	54.00	1242.00	23.00	1242.00	
26	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.	Each	3.00			3.00	111.00	333.00	3.00	333.00	
27	Supplying and fixing PVC/metal conduit Deep junction box	Each	1.00			1.00	60.00	60.00	1.00	60.00	
28	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete.	Each	10.00			10.00	102.00	1020.00	10.00	1020.00	
29	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.	Each	12.00			12.00	275.00	3300.00	12.00	3300.00	
30	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.	Nos	5.00			5.00	175.00	875.00	5.00	875.00	
31	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply & completely wired on existing box.	Each	2.00			2.00	680.00	1360.00	2.00	1360.00	
32	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.	m	258.00			258.00	20.00	5160.00	258.00	5160.00	
33	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300mm .... etc. as required.	Each	15.00			15.00	22.00	330.00	15.00	330.00	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Previous Measurement		Present Measurement			Total UP-to-date		Remarks
				Qty	Cost	Qty	Rate Rs. & P.	Cost	Qty.	Cost	
34	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely	Each	16.00			16.00	22.00	352.00	16.00	352.00	
35	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size .....mm conduit using necessary machine screws.	Each	16.00			16.00	11.00	176.00	16.00	176.00	
36	Providing and fixing chorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and making good walls) 20mm nominal OD pipes	m	25.00			25.00	253.00	6325.00	25.00	6325.00	
	Sub Total Amount							927557.00		927557.00	
	Add 12.0% towards GST Charges							39307.00		39307.00	
	Grand Total Amount							966864.00		966864.00	

Certificate

1 The above work has been Completed satisfactorily

2 The debris has been removed and disposed from the work spot.

3 No. departmental issues are made to the contractor

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore